I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an Envelope addressed to: Assistant Commissioner for Patents, Washington, D.C., 20231, on:

4/16/9

By: Charles K. Sholtz

DOCKET No. 07953.0004.999

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Pamela R. CONTAG

SERIAL NO.: 08/844,336

FILED:

April 18, 1997

For: **BIODETECTORS TARGETED**

TO SPECIFIC LIGANDS

EXAMINER:

V. Ryan

ART UNIT:

1641

FILE COPY

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Listed on the accompanying Form-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §1.56 1.97 and 1.98.

This Information Disclosure Statement is being filed after three months of the filing date of this national application or the date of entry of the national stage as set forth in § 1.491 in an international application or after the mailing date of the first Office action on the merits, whichever event occurred last but before the mailing date of either a final action under § 1.113 or a notice of allowance under § 1.311, whichever occurs first.

Accompanying this transmittal is the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement under § 1.97(c). (\$240.00). Attached is a check which includes the amount of \$ 240.00. The Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to Deposit Account No. 50-0652. A duplicate copy of this communication is enclosed.

BEST AVAILABLE COPY

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested.

Respectfully submitted,

Date

April 15, 1999

Charles K. Sholtz Reg. No. 38,615

Correspondence Address:

Howry & Simon 301 Ravenswood Avenue Menlo Park, CA 94025 (650) 463-8100

INFORMATION DISCLOSURE CITATION				ATTORNEY'S DKT NO.		14	
PTO-1449						APPLICATION NO.	
				PXE-002P1.US		08/844,336	
				APPLICANT: Pamela R. Contag, et al.			
				FILING DATE: April 18, 1997 GROUP: 1641			
U.S. PATENT DOCUMENTS							
EXAMINER'S	PATENT NO.	DATE	NAME		CLASS	SUBCLASS	FILING
INITIALS	5 (10 104	00 (10 (07				3030	DATE
5,612,184 03/18/97 Rosson, A.						06/06/95	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	со	UNTRY	CLASS	SUBCLASS	Translation
	OTHER D	OCUMENTS	Including Auth	or, Title, Date, Perti	nent Pages	Etc.)	
Blum, et al. 1989 "Design of luminescence photobiosensors." Journal of Bioluminescence and Chemilumenscence 4:543-550.							
	Danilov, et al. 1989 "Bacterial Luciferase as a Biosensor of Biologically Active Compounds." Biotechnology 11:39-78.						
	Kobatake, et al., 1995 "Biosensing of benzene derivatives in the environment by luminescent Escherichia coli" Biosensors & Bioelectronics 10:601-605.						
	Kubo, et al. 1991 "Whole-Organism Based Biosensors and Microbiosensors." Advances in Biosensors 1:1-32						
	Sedlack, et al 1995 "Bioluminescent Technology for Reagents, Diagnostics and Toxicology." Genetic						
	Engineering News Genetic Engineering News 8 (September 15, 1995).						
	Wilmes-Riesenberg, et al. 1992 "TnphoA and TnphoA' elements for making and switching fusions for study of						
	transcription, translation, and cell surface localization." J. Bacteriol 174:4558-75						
			·				
							
	 						
	<u>.</u>						
EXAMINER			DA	TE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant.

TO THE Commissioner of Patents & Trademarks OF PAY Two Hundred Forty ##5228fmf5EGO ##5E00012f# ##E20200# 4/1/99 240.00 2073

Date: Anril 15 1000

Date: April 16, 1999

Attorney Docket No.: PXE-002.US , 07953.00~4.969

Pamela R. Contag, et al.

08/844,336 April 18, 1997 Application Serial Number: Application Filing Date: Title: Biodetectors Targeted to Specific Ligands.

Paper(s) enclosed:

- 4th Supplemental Information Disclosure Statement PTO Form 1449 <u>τ</u> κκ Ψιψκ Copies of **β** cited references

BEST AVAILABLE CONV

- Check #544 in the amount of \$240.00
- 2073 CKS 4/16/99 Return Post Card

RECEIVED BY THE U.S. PATENT AND TRADEMARK OFFICE

